**Indexes**

Have already implemented indexing in our project where Primary Keys, Foreign Keys, Unique Keys, Hash Indexes were already enabled.

Primary Keys: It was introduced to all the entities keeping in view of eliminating duplicity of key ID field and Unique key is part of it. Functioning of Primary keys must contain UNIQUE values, and cannot contain NULL values. We even followed the rule of having only one primary key in a table that may contain multiple columns in case required. Though the multi-column primary key function currently not used currently, but it can be used as and when program demands.

*-- Table: Accessories*

**CREATE** **TABLE** Accessories (

accessID **integer** **NOT** **NULL**,

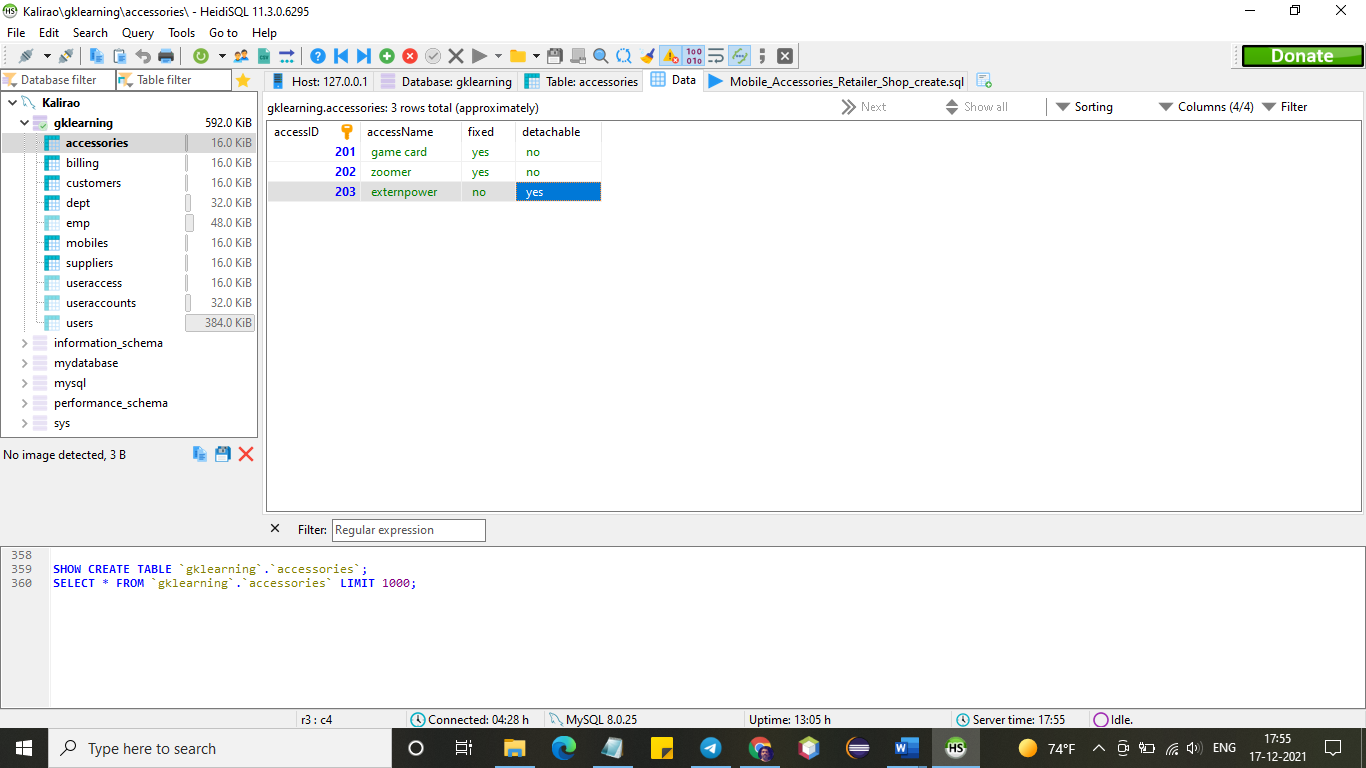
accessName **varchar**(25) **NOT** **NULL**,

**fixed** **varchar**(25) **NOT** **NULL**,

detachable **varchar**(25) **NOT** **NULL**,

**CONSTRAINT** Accessories\_pk **PRIMARY** **KEY** (accessID)

) ;



* Look at the accessID none of the ID’s are duplicate is because of uniqueness which is being part of primary keys.

Foreign Keys: foreign keys that we use to prevent actions that would destroy links between tables, in other words foreign keys establish relationship between two or more tables. Of course the table with the foreign key is called as the child table, and the table with the primary key is called the referenced or parent table.

*-- Table: MOBILES*

**CREATE** **TABLE** MOBILES (

mobileID **integer** **NOT** **NULL**,

mobileName **varchar**(25) **NOT** **NULL**,

mobileType **varchar**(25) **NOT** **NULL**,

mobileVersion **integer** **NOT** **NULL**,

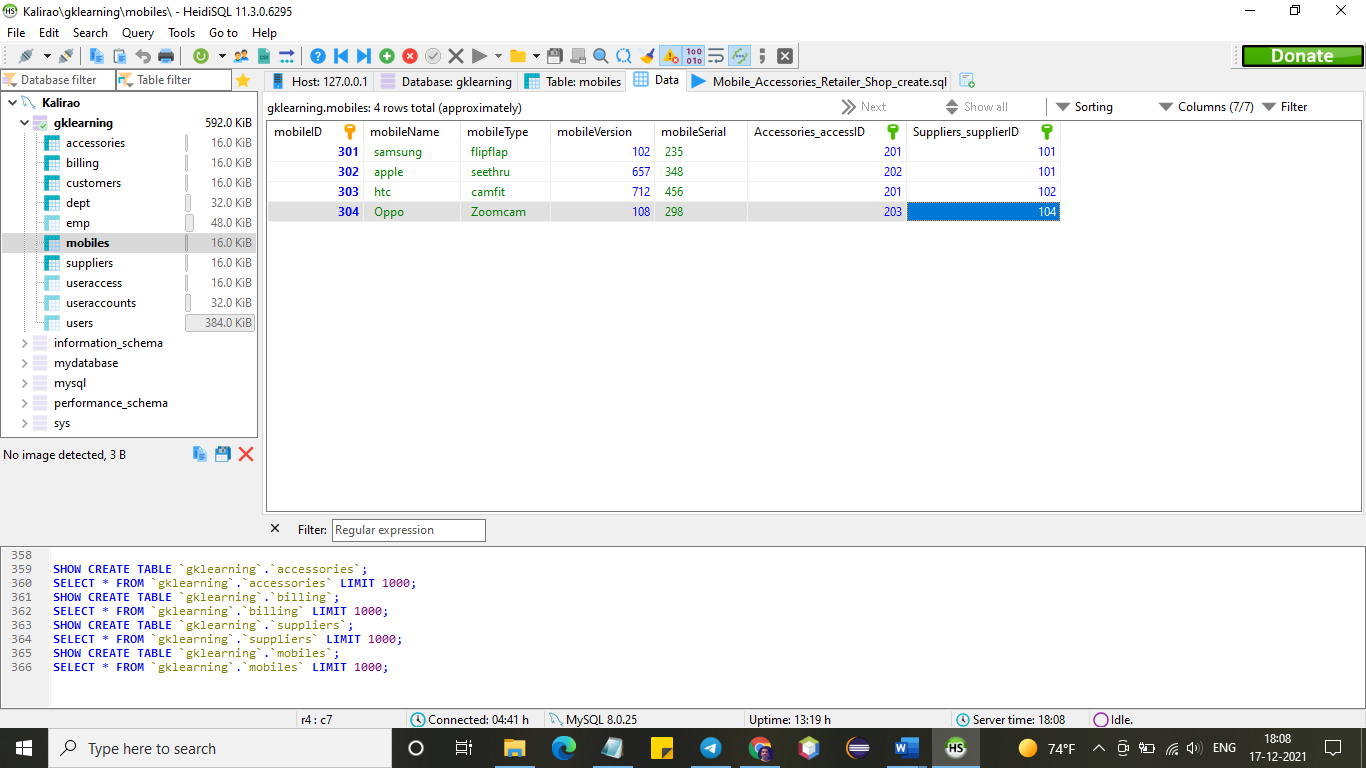
mobileSerial **varchar**(25) **NOT** **NULL**,

Accessories\_accessID **integer** **NOT** **NULL**,

Suppliers\_supplierID **integer** **NOT** **NULL**,

**CONSTRAINT** MOBILES\_pk **PRIMARY** **KEY** (mobileID)

) ;



* The mobileID is used as primary key which is again unique in nature eliminating duplicate ID’s, whereas accessID and supplierID are foreign keys which are unique at their parent tables, but mapped to mobiles table bonding the relationship between the trio.